

**AMENDMENTS TO THE CLAIMS**

The following claim listing includes the status of all claims submitted in this application, including amendment to claim 1 presently submitted.

**LISTING OF CLAIMS**

1 (currently amended). An extrusion die for use in producing perforated stick-type propellant comprising:

- (a) a die blank having a generally round central passage therethrough, said passage having an unrestricted tapered entry;
- (b) an open lattice webbing structure beyond said tapered entry in said central passage for passing extruding propellant, said webbing structure providing struts in and spanning said central die passage; and
- (c) an array of solid die pins carried by said webbing structure arranged in a pattern one or more generally circular patterns for imparting a pattern of perforations in material forced through said central passage, each pin having a fixed end attached to said lattice webbing structure and a free end extending parallel to said passage beyond said webbing structure.

2 (previously presented). An extrusion die as in claim 1 wherein said die is formed as a unitary structure.

3 (previously presented). An extrusion die as in claim 1

wherein said central passage is tapered slightly in the vicinity of said lattice webbing structure.

4 (previously presented). An extrusion die as in claim 1 wherein said open lattice structure is machined in said central passage.

5 (previously presented). An extrusion die as in claim 2 wherein said open lattice structure is machined in said central passage.

6 (previously presented). An extrusion die as in claim 1 wherein at least some of the pins are formed integrally with said open lattice webbing structure.

7 (previously presented). An extrusion die as in claim 4 wherein at least some of the pins are formed integrally with said open lattice webbing structure.

8 (withdrawn). An extrusion die as in claim 1 wherein one or more of said pins is separately manufactured and fixed to said lattice webbing structure.

9 (withdrawn). An extrusion die as in claim 8 wherein separately manufactured pins are press fit into openings provided in said lattice webbing structure.

10 (previously presented). An extrusion die as in claim 1 wherein one or more of said pins is of a non-round cross section.

11 (withdrawn). An extrusion die as in claim 1 wherein the number of pins arranged in said pattern is selected from 7, 19 and 37 and wherein said pattern includes a central pin.

12 (withdrawn). An extrusion die as in claim 11 wherein the number of pins is 7.

13 (previously presented). An extrusion die as in claim 4 wherein said machining includes electron discharge machining.

14 (previously presented). An extrusion die as in claim 5 wherein said machining includes electron discharge machining.

15 (previously presented). An extrusion die as in claim 1 wherein the area of the open lattice webbing structure is tapered slightly to enhance reforming of extruded material into sticks.

16 (withdrawn). A method of extruding perforated stick-type propellant including the step of:

extruding propellant through the die blank of claim 1, said propellant passing through said die blank maintaining a direction substantially parallel to said pins along the length thereof.